Application Serial No: 10/606,353 Attorney Docket No: 6661-0000010/US

LISTING OF THE CLAIMS

The following listing of claims will replace all prior versions and listings of claims in the application.

- 1. (Canceled)
- 2. (Currently Amended) A method for forming a reflective reflector pattern comprising: forming a micropattern using an <u>organo</u>metal<u>lic</u>-containing compound through a photoreaction or thermal energy through the following steps:
- (a) coating the <u>organo</u>metal<u>lic</u>-containing compound on a substrate to form a thin film,
 - (b) exposing the thin film to light through a mask to decompose the <u>organo</u>metal<u>lic</u>-containing compound at exposed area and to induce a difference in solubility between the exposed and unexposed areas and developing the thin film to remove the <u>organo</u>metal<u>lic</u>-containing compound of the unexposed area, and
 - (c) reducing or oxidizing the exposed area to form a metal pattern or metal oxide pattern; and

growing crystal, using the pattern as a nucleus for growing crystal, by an electro or electroless plating process.

3. (Currently Amended) A method for forming a reflective reflector pattern comprising: forming a micropattern using an <u>organo</u>metal<u>lic</u>-containing compound through a photoreaction or thermal energy through the following steps:

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(a) forming a pattern using the <u>organo</u>metal<u>lic</u>-containing compound through soft

lithography or ink jet printing, and

(b) heating the pattern to decompose the <u>organo</u>metal<u>lic</u>-containing compound; and

growing crystal, using the pattern as a nucleus for growing crystal, by an electro or electroless plating process.

- 4. (Original) The method according to claim 3, wherein the soft lithography is microcontact printing or micromolding in capillaries (MIMIC).
- 5. (Currently Amended) The method according to claim 2 or 3, wherein the <u>organometallic</u>-containing compound is represented by the following formula 1:

$$M_{\rm m}L_2X_{\rm p} \qquad (1)$$

wherein M is a metal; L is a ligand; X is a monovalent to trivalent anion; m is an interger from 1 to 10, and when m is 2 or more, each M may be different from the other; n is an integer from 0 to 60, and when n is 2 or more, each L may be different from the other; p is an integer from 0 to 60, and when p is 2 or more, each X may be different from the other; L may act as a ligand bonding two metals when two or more metals are used; and n and p are not simultaneously 0.

6. (Previously Presented) The method according to claim 5, wherein M is a late transition metal (IX~XII) selected from the group consisting of Co, Ni, Pd, Pt, Cu, AG, Au, An and Ce, or A1.

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7. (Previously Presented) The method according to claim 5, wherein L is a ligand selected from the group consisting of acetylacetonates, acetates, β-ketoiminates, β-diiminates, β-ketoesters, dialkyldithiocarbamates, carboxylates, oxalate, alkoxy ligands, pyridines, amines, diamines, arsines, diarsines, phosphines, diphosphines, arenas, carbonyl, imidazolylidene, ethylene, acetylene, aquo, thiocarbonyl, thioether and a derivative thereof.

- 8. (Previously Presented) The method according to claim 5, wherein X is an anion selected from the group consisting of halogen, hydroxy, cyanide (CN_3^-) , nitrite (NO_2^-) , nitrate (NO_2^-) , nitrosyl (NO_2^-) , azide (N_4^-) , thiocyanate (NCS_3) , isothiocyanate (SCN_4^-) , tetraalkylborate $(BR_4^-, R = methyl, ethyl or phenyl group), tetrahaloborate <math>(BX_4^-, X = F, Br)$, hexafluorophosphate (PF_6^-) , triflate $(CF_3SO_3^-)$, tosylate (Ts^-) , sulfate (SO_4^{2--}) , and carbonate (CO_3^{2--}) .
- 9. (Currently Amended) The method according to claim 6, wherein the <u>organo</u>metal<u>lic</u>-containing compound is a silver compound.

Claims 10 and 11 are cancelled.

12. (Previously Presented) The method according to claim 5, wherein M is at least one transition metal, lanthanide or A1.